# Varsity College
# Year 11 Physics 2023

## Term 1, 2023

| Week | Date | Topics | Assessment |
|---|---|---|---|
| 1 | 23-27 January<br>**Australia Day PH - Thurs** | • (Unit 1, Topic 2.1) Nuclear model and stability | |
| 2 | 30 Jan – 3 Feb<br>**Swimming Carnival - Mon** | • (Unit 1, Topic 2.2) Decay and half life | **RI Handed Out L3** |
| 3 | 6-10 February | • (Unit 1, Topic 2.3) Fission and Fusion<br>• Research Investigation – Plan and Conduct (IA3 1&2) | |
| 4 | 13-17 February | • (Unit 1, Topic 2.3) Mass defect and Binding energy<br>• Research Investigation – Plan and Conduct (IA3 3&4) | |
| 5 | 20-24 February | • Research Investigation – Analyse and Interpret (IA3 5-7) | **RI Draft Due L3** |
| 6 | 27 Feb – 3 Mar | • (Unit 1, Topic 1,1) Kinetic particle model and heat flow | |
| 7 | 6-10 March<br>**GIPSA - Wednesday** | • (Unit 1, Topic 1,2) Temperature<br>• Research Investigation – Drafting Conferencing (IA2 8&9) | **RI Draft Returned L2** |
| 8 | 13-17 March | • (Unit 1, Topic 1,2) Specific Heat Capacity | **Research Investigation Due L3** |
| 9 | 20-24 March | • (Unit 1, Topic 1,3) Phase changes and specific latent heat | |
| 10 | 27-31 March<br>**Cross Country - Thurs** | **Exam Block** | |
| **School Holidays: Saturday April 1 – Sunday April 16** | | | |

## Term 2, 2023

| Week | Date | Topics | Assessment |
|---|---|---|---|
| 1 | 17-21 April<br>**Athletics Carnival - Wednesday** | • (Unit 1, Topic 3.1) Current, Potential difference and Energy flow | |
| 2 | 24-28 April<br>**ANZAC Day PH - Tues** | • (Unit 1, Topic 3.2) Resistance | |
| 3 | 1-5 May<br>**Labour Day PH - Monday**<br>**GIPSA - Wednesday** | • (Unit 1, Topic 3.3) Circuit Analysis | |
| 4 | 8-12 May | • (Unit 1, Topic 3.3) Power dissipation in circuits | |
| 5 | 15-19 May<br>**GIPSA - Wednesday** | • (Unit 2, Topic 2.1) Wave properties and models | |
| 6 | 22-26 May<br>**GIPSA - Wednesday** | • (Unit 2, Topic 2.1) Wave properties and models | |
| 7 | 29 May – 2 June | • (Unit 2, Topic 2.2) Standing waves in strings and pipes | |
| 8 | 5-9 June<br>**Exam Block – Tuesday L1,2**<br>**GIPSA - Wednesday** | • (Unit 2, Topic 2.2) Resonance and natural frequency | |
| 9 | 12-16 June | • Revision | |
| 10 | 19-23 June | **Exam Block** | **U1 Data Test + Exam (2H)** |
| **School Holidays: Saturday June 24 – Sunday July 9** | | | |

## Term 3, 2023

| Week | Date | Topics | Assessment |
|---|---|---|---|
| 1 | 10-14 July | • (Unit 2, Topic 2.3) Wave model of light and properties | |
| 2 | 17-21 July | • (Unit 2, Topic 2.3) Reflection, Refraction, Light intensity and Interference<br>• Student Experiment – Hand Out, Plan and Conduct (IA2 1) | **SE Handed Out L1** |
| 3 | 24-28 July | • Student Experiment – Plan and Conduct (IA2 2-4) | |
| 4 | 31 July – 4 August | • (Unit 2, Topic 2.3) Total Internal Reflection<br>• Student Experiment – Analyse and Evaluate (IA2 5&6) | |
| 5 | 7-11 August | • (Unit 2, Topic 2.3) Ray diagrams and lenses<br>• Student Experiment – Analyse and Evaluate (IA2 7) | **SE Draft Due L1** |
| 6 | 14-18 August | • (Unit 2, Topic 2.3) Diffraction and interference<br>• (Unit 2, Topic 1.2) Motion Graphs and equations of motion | |
| 7 | 21-25 August | • (Unit 2, Topic 1.3) Newton's Laws of motion<br>• Student Experiment – Drafting Conferencing (IA2 8&9) | **SE Draft Returned L1** |
| 8 | 28 August – 1 Sept. | • (Unit 2, Topic 1.4) Energy and work<br>• (Unit 2, Topic 1.4) Momentum Collisions | **Student Experiment Due L1** |
| 9 | 4-8 September | • Revision | |
| 10 | 11-15 September | **Exam Block** | **U2 Exam (90min)** |
| **School Holidays: Saturday September 16 – Monday October 2** | | | |

## Term 4, 2023

| Week | Date | Topics | Assessment |
|---|---|---|---|
| 1 | 2-6 October<br>**Queen's Birthday PH - Mon** | • (Unit 3, Topic 1.1) Vectors | |
| 2 | 9-13 October | • (Unit 3, Topic 1.2) Projectile motion | |
| 3 | 16-20 October | • (Unit 3, Topic 1.3) Inclined Planes | |
| 4 | 23-27 October | • (Unit 3, Topic 1.4) Circular motion | |
| 5 | 30 Oct – 3 Nov | • (Unit 3, Topic 1.5) Gravitational force and fields | |
| 6 | 6-10 November | • (Unit 3, Topic 1.6) Orbits | |
| 7 | 13-17 November | • Revision | |
| 8 | 20-24 November | **Exam Block** | **Data Test (IA1)** |
| **School Holidays: Saturday November 25 – Sunday January 21, 2024** | | | |